

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088233.D
 Acq On : 25 Oct 2014 5:35
 Operator : TP/JJ
 Sample : F4368-22
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB43-1014

Quant Time: Oct 27 13:47:23 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102414.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 27 13:04:40 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	27085	5.00	ng	0.00
3) Naphthalene-d8	8.68	136	105673	5.00	ng	0.00
7) Acenaphthene-d10	10.83	164	58811	5.00	ng	0.00
12) Phenanthrene-d10	12.93	188	127497	5.00	ng	0.00
16) Chrysene-d12	18.35	240	70885	5.00	ng	0.00
22) Perylene-d12	21.40	264	54930	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.81	82	353549	44.29	ng	0.01
8) 2-Fluorobiphenyl	10.02	172	501498	30.58	ng	0.00
18) Terphenyl-d14	16.13	244	481047	41.44	ng	0.03

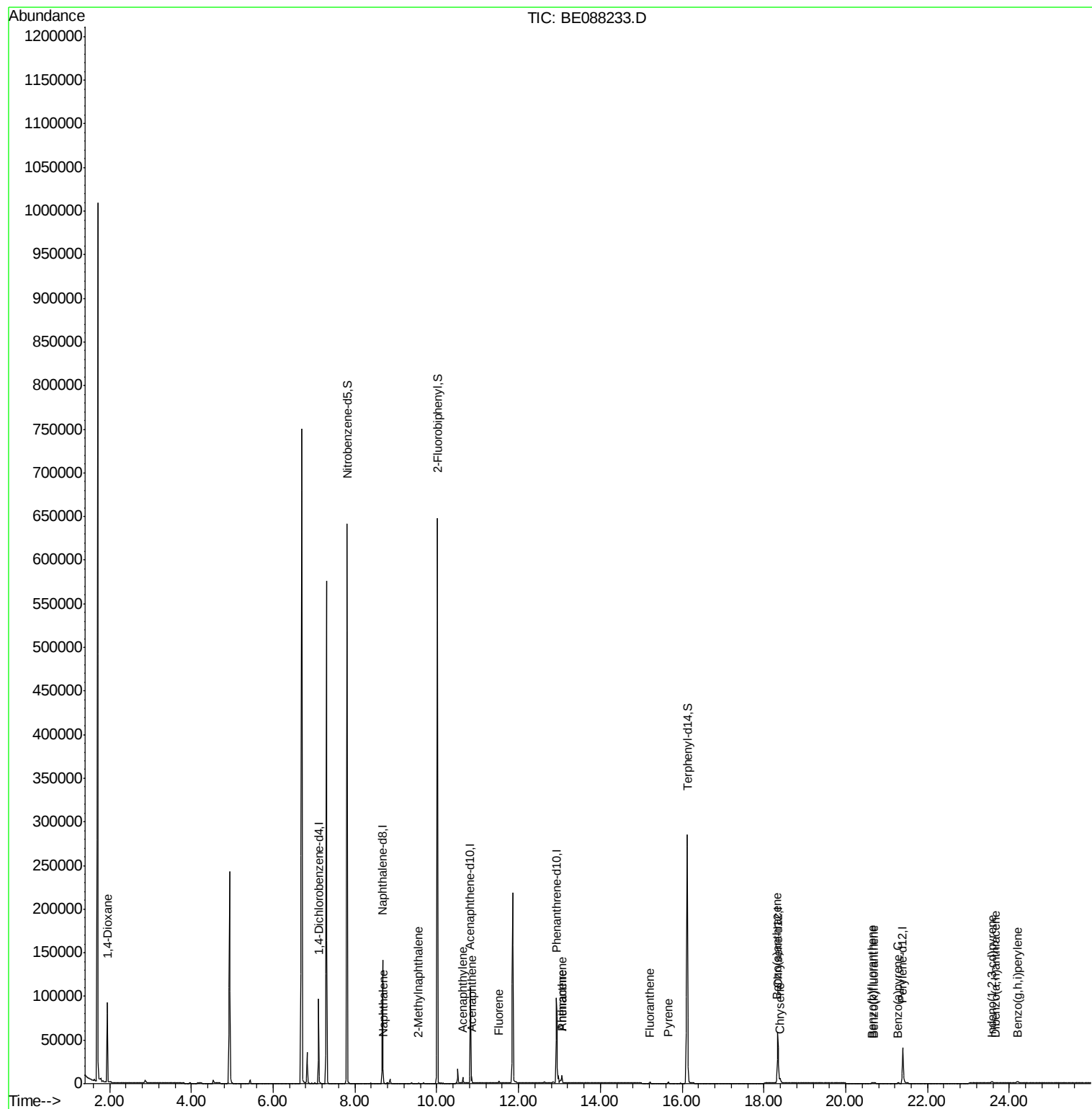
Target Compounds						Qvalue
2) 1,4-Dioxane	1.94	88	2917	0.77	ng	# 1
5) Naphthalene	8.70	128	466	0.02	ng	# 77
6) 2-Methylnaphthalene	9.55	142	596	0.05	ng	95
9) Acenaphthylene	10.64	152	6231	0.07	ng	# 95
10) Acenaphthene	10.86	154	976	0.07	ng	96
11) Fluorene	11.52	166	1310	0.09	ng	99
13) Phenanthrene	13.06	178	8803	0.07	ng	93
14) Anthracene	13.06	178	8803	0.10	ng	95
15) Fluoranthene	15.21	202	1953	0.10	ng	100
17) Pyrene	15.66	202	2094	0.11	ng	100
19) Benzo(a)anthracene	18.33	228	7376	0.13	ng	# 94
20) Chrysene	18.40	228	7287	0.11	ng	94
21) Indeno(1,2,3-cd)pyrene	23.57	276	3350	0.29	ng	# 68
23) Benzo(b)fluoranthene	20.64	252	1375	0.28	ng	# 86
24) Benzo(k)fluoranthene	20.70	252	1775	0.13	ng	# 84
25) Benzo(a)pyrene	21.28	252	1277	0.28	ng	# 82
26) Dibenzo(a,h)anthracene	23.66	278	1025	0.30	ng	# 64
27) Benzo(g,h,i)perylene	24.20	276	5487	0.12	ng	# 81

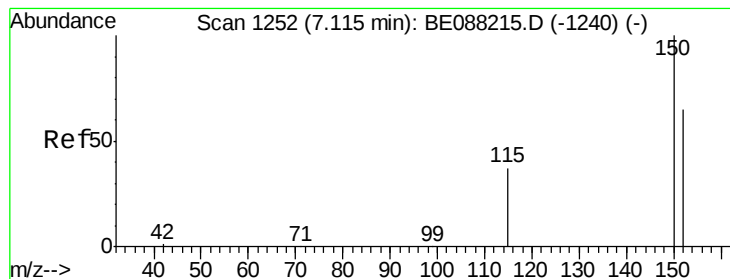
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.11 min Scan# 1252

Delta R.T. -0.00 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

Instrument :

BNA_E

ClientSampleId :

YS19-SB43-1014

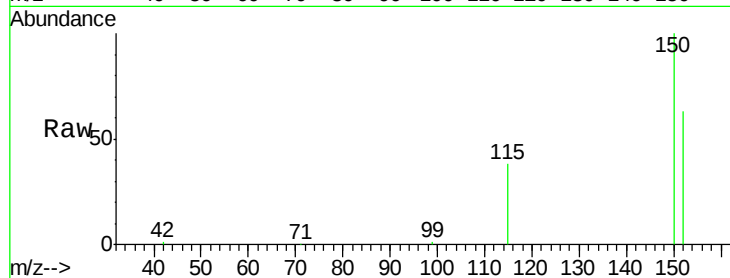
Tgt Ion:152 Resp: 27085

Ion Ratio Lower Upper

152 100

150 159.9 123.2 184.8

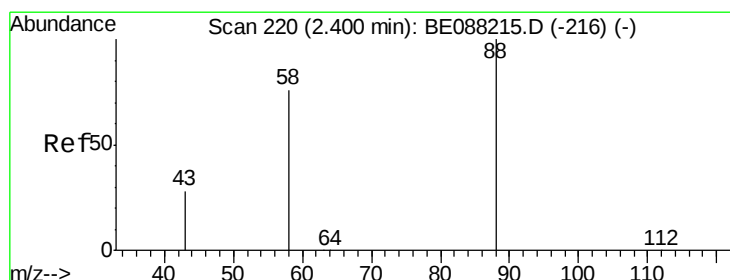
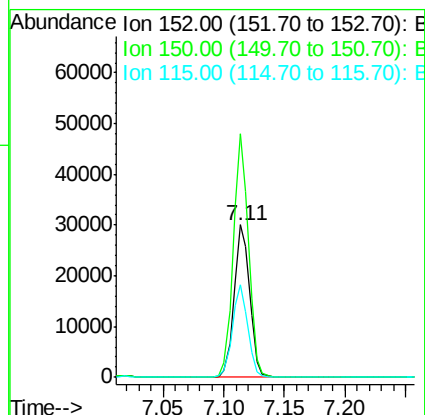
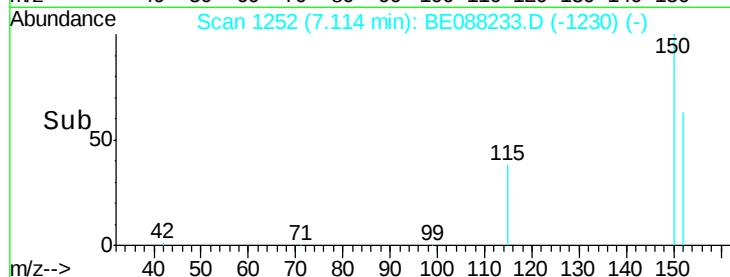
115 61.0 45.3 67.9



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.77 ng

RT: 1.94 min Scan# 120

Delta R.T. -0.46 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

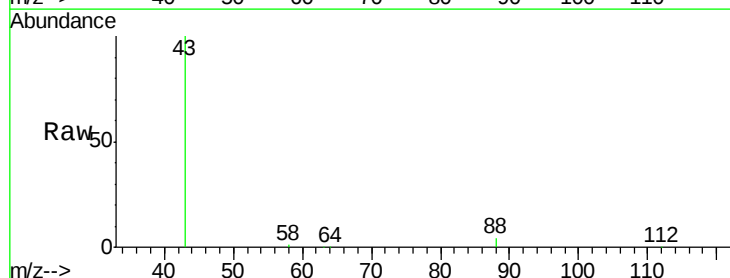
Tgt Ion: 88 Resp: 2917

Ion Ratio Lower Upper

88 100

58 26.6 59.0 88.4#

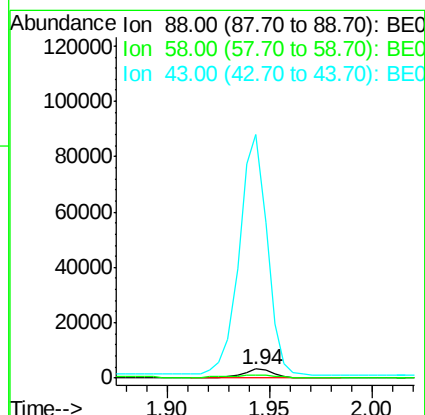
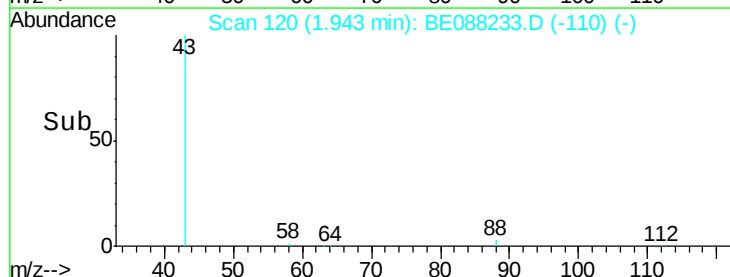
43 2827.5 21.9 32.9#

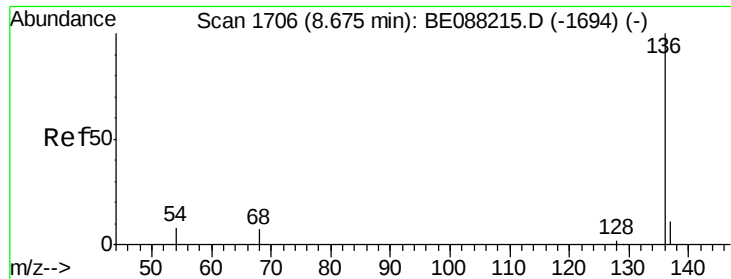


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.68 min Scan# 1707

Delta R.T. 0.00 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

Instrument :

BNA_E

ClientSampleId :

YS19-SB43-1014

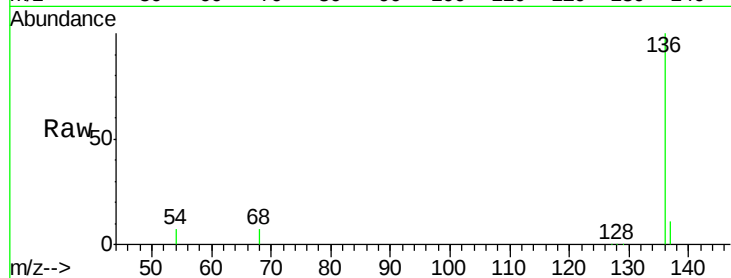
Tgt Ion: 136 Resp: 105673

Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

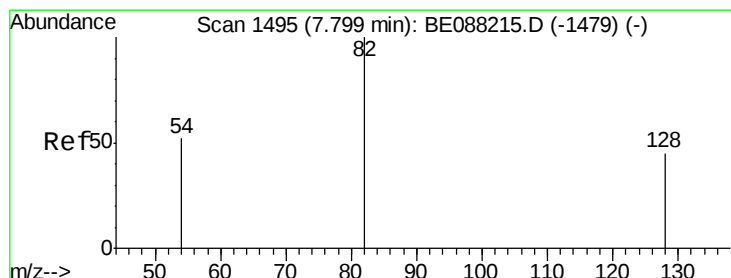
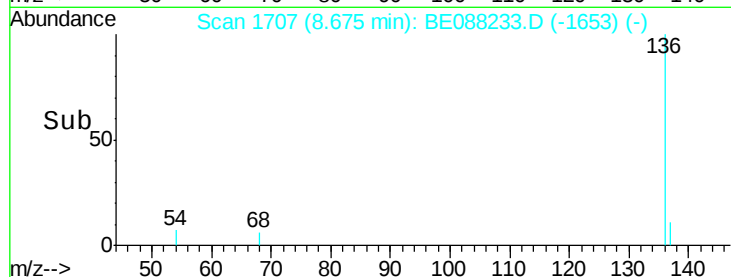
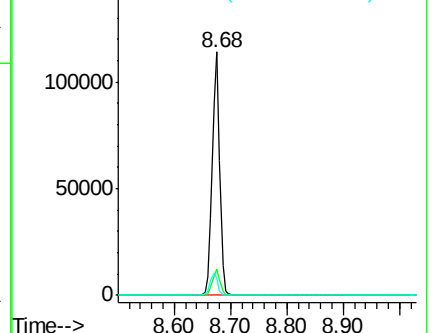
54 6.9 6.1 9.1



Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0



#4

Nitrobenzene-d5

Concen: 44.29 ng

RT: 7.81 min Scan# 1500

Delta R.T. 0.01 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

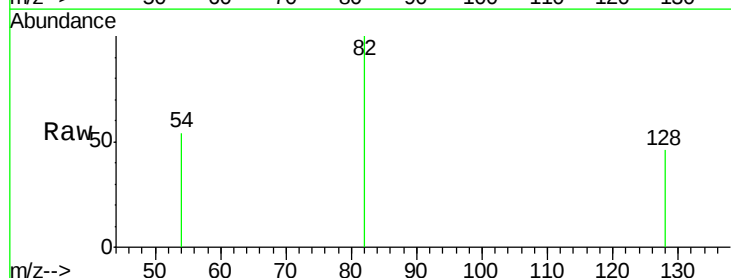
Tgt Ion: 82 Resp: 353549

Ion Ratio Lower Upper

82 100

128 46.0 36.2 54.2

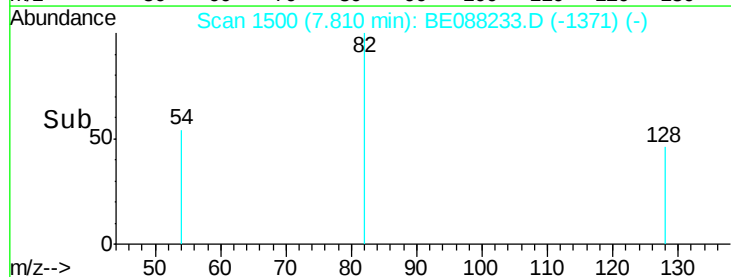
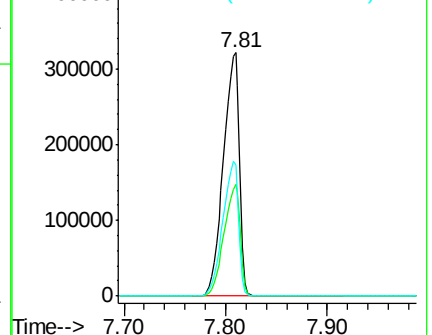
54 53.7 41.8 62.8

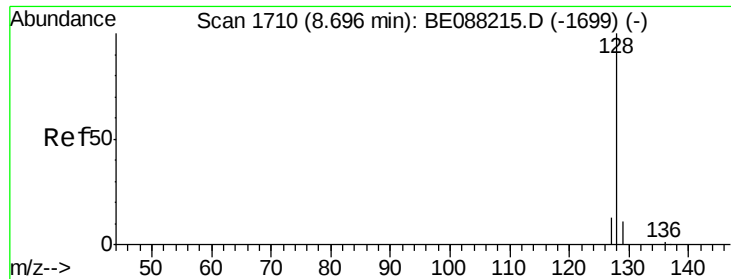


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 0.02 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.00 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

Instrument :

BNA_E

ClientSampleId :

YS19-SB43-1014

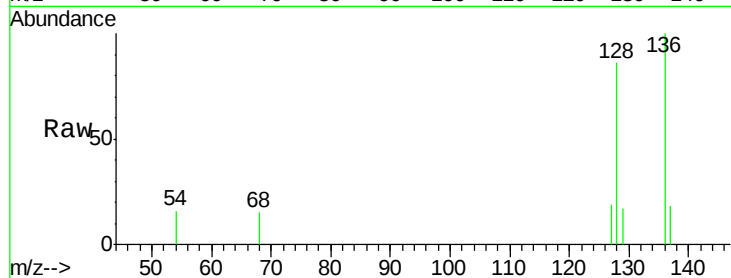
Tgt Ion:128 Resp: 466

Ion Ratio Lower Upper

128 100

129 19.5 8.6 12.8#

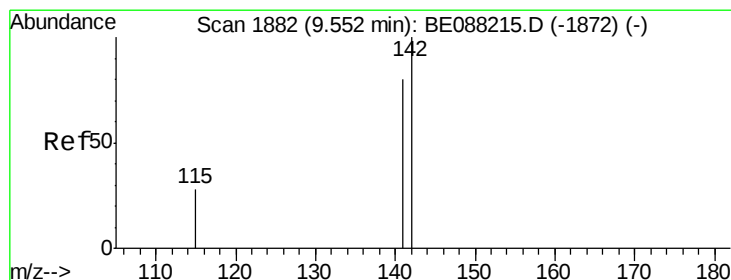
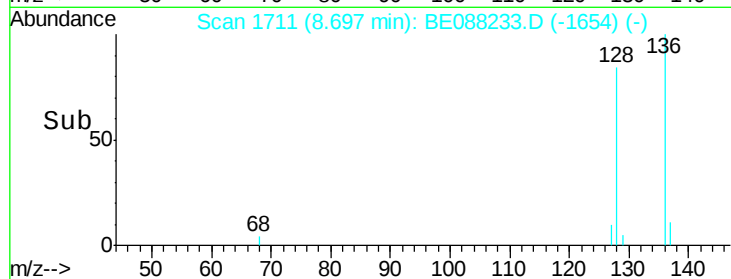
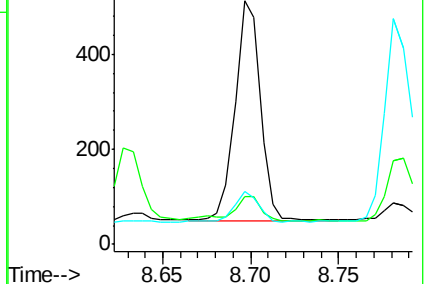
127 21.9 10.4 15.6#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#6

2-Methylnaphthalene

Concen: 0.05 ng

RT: 9.55 min Scan# 1883

Delta R.T. 0.00 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

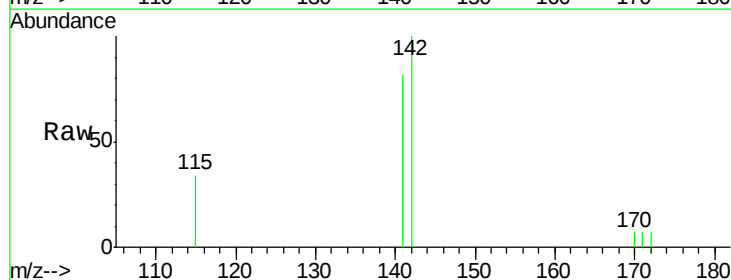
Tgt Ion:142 Resp: 596

Ion Ratio Lower Upper

142 100

141 82.0 63.7 95.5

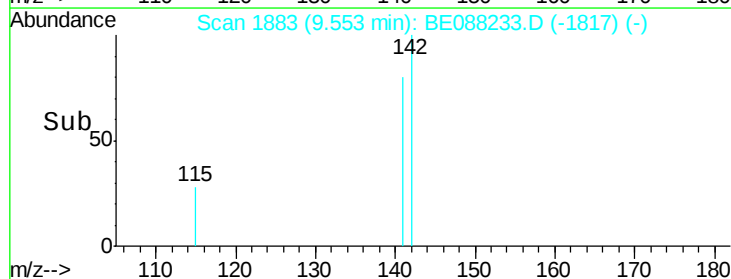
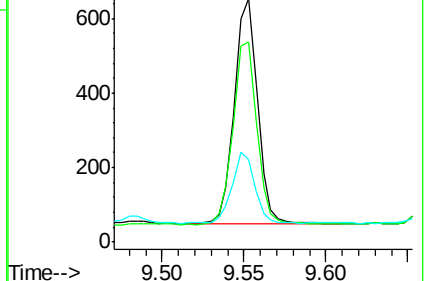
115 33.6 22.6 34.0

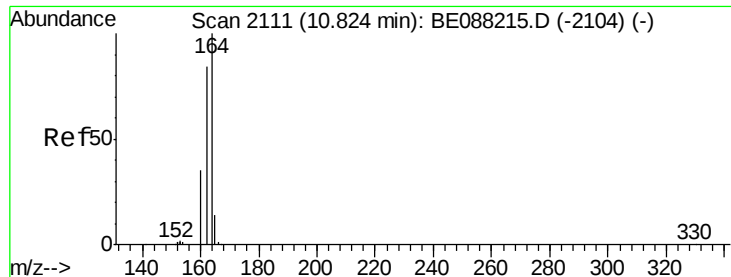


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.83 min Scan# 2112

Delta R.T. 0.00 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

Instrument :

BNA_E

ClientSampleId :

YS19-SB43-1014

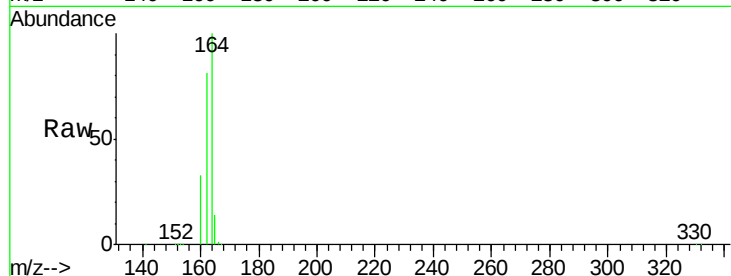
Tgt Ion:164 Resp: 58811

Ion Ratio Lower Upper

164 100

162 81.4 67.4 101.0

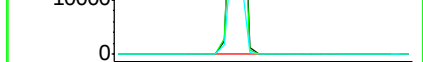
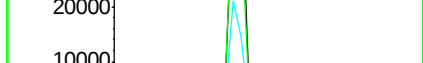
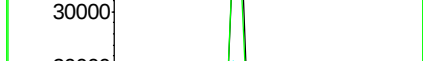
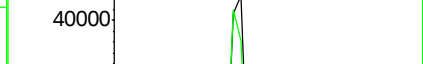
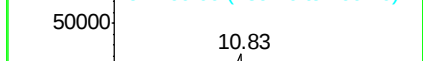
160 32.6 27.7 41.5



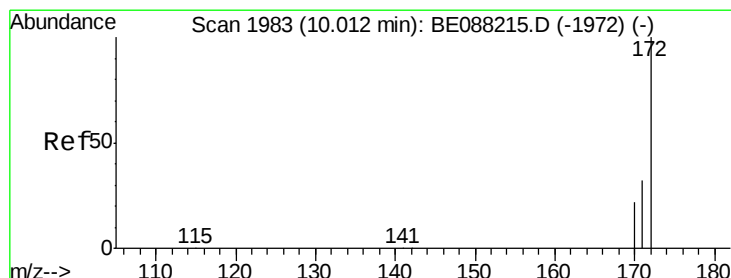
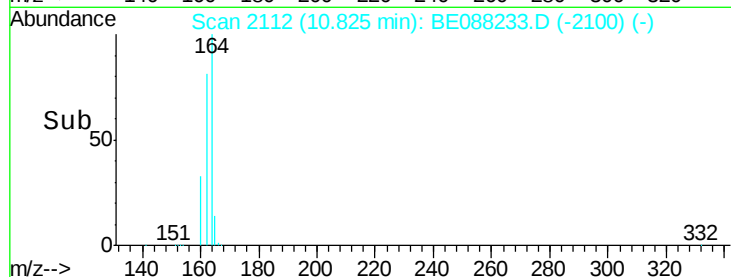
Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



Time-->



#8

2-Fluorobiphenyl

Concen: 30.58 ng

RT: 10.02 min Scan# 1986

Delta R.T. 0.01 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

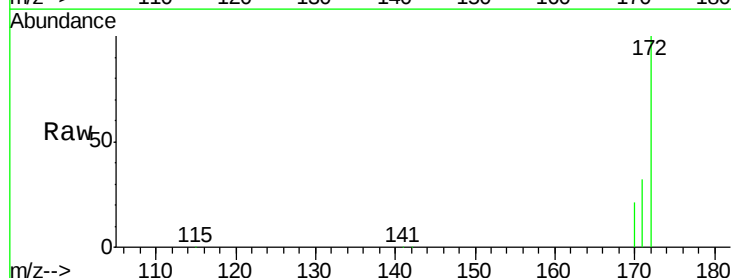
Tgt Ion:172 Resp: 501498

Ion Ratio Lower Upper

172 100

171 31.8 25.8 38.6

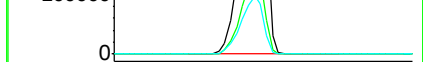
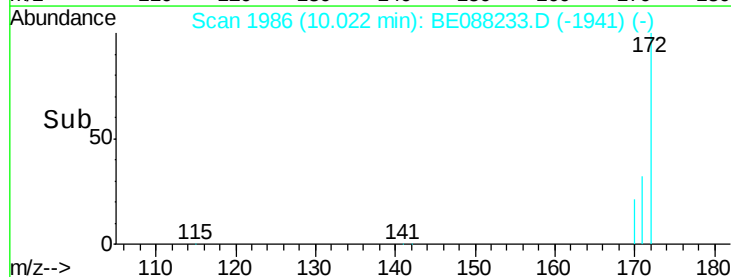
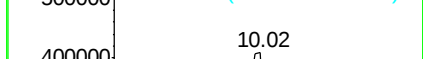
170 20.7 17.4 26.0



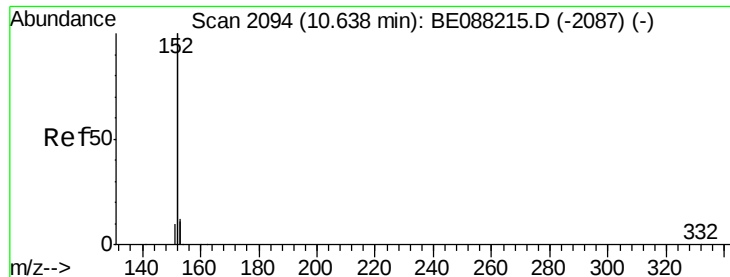
Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



Time-->



#9

Acenaphthylene

Concen: 0.07 ng

RT: 10.64 min Scan# 2095

Delta R.T. 0.00 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

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YS19-SB43-1014

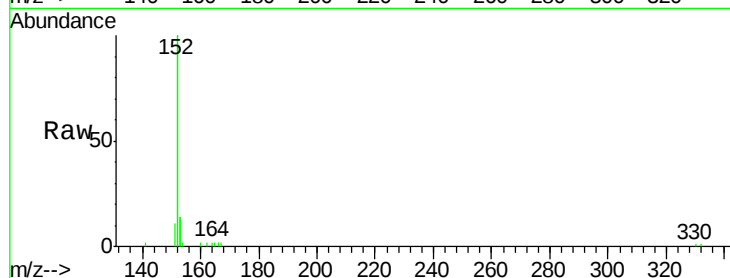
Tgt Ion:152 Resp: 6231

Ion Ratio Lower Upper

152 100

151 4.5 3.7 5.5

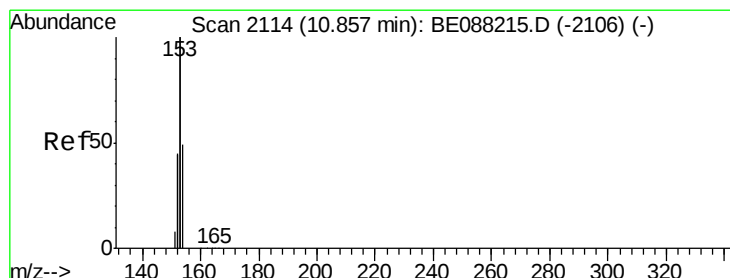
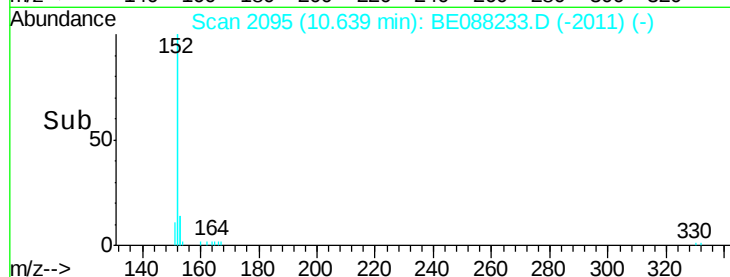
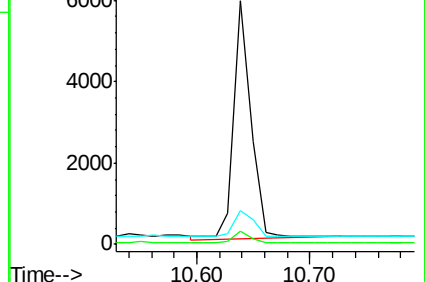
153 15.8 10.3 15.5#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#10

Acenaphthene

Concen: 0.07 ng

RT: 10.86 min Scan# 2115

Delta R.T. 0.00 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

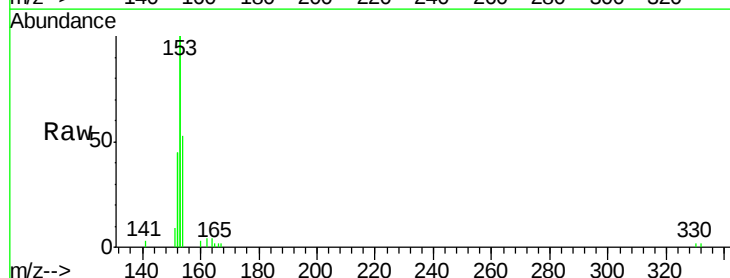
Tgt Ion:154 Resp: 976

Ion Ratio Lower Upper

154 100

153 411.2 326.0 489.0

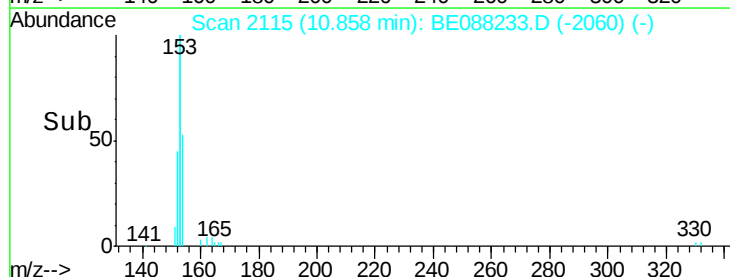
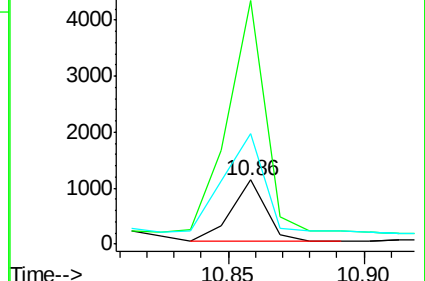
152 207.5 155.6 233.4

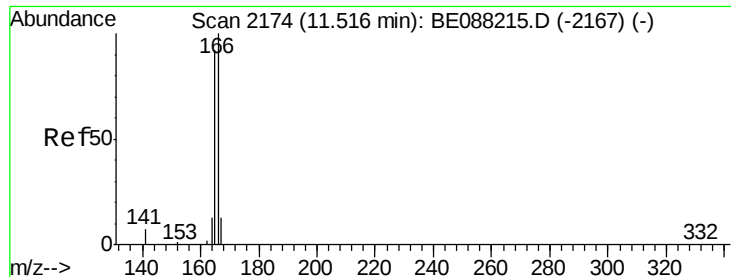


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 0.09 ng

RT: 11.52 min Scan# 2175

Delta R.T. 0.00 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

Instrument :

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YS19-SB43-1014

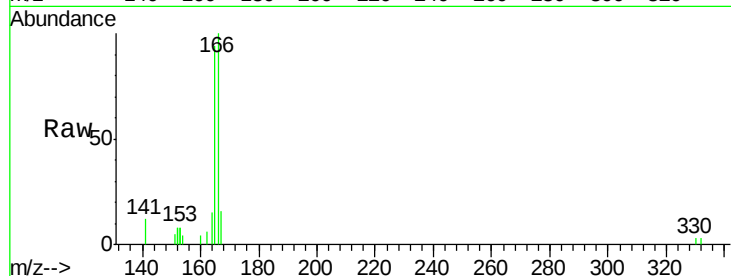
Tgt Ion:166 Resp: 1310

Ion Ratio Lower Upper

166 100

165 90.6 71.8 107.6

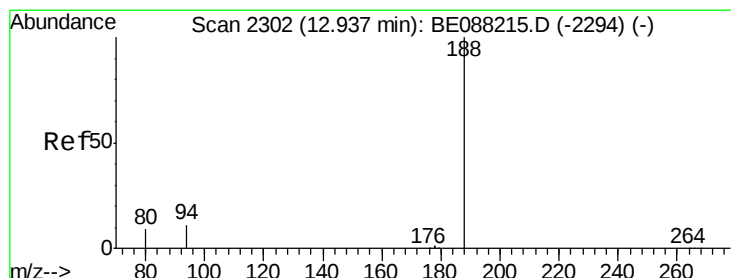
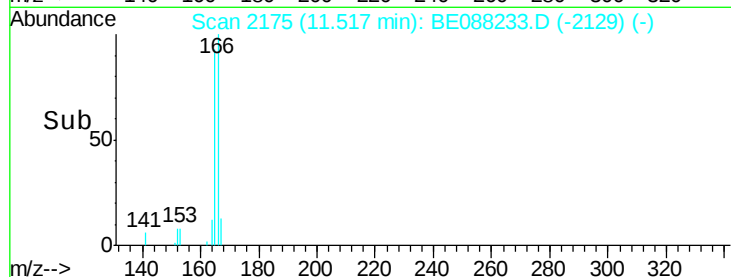
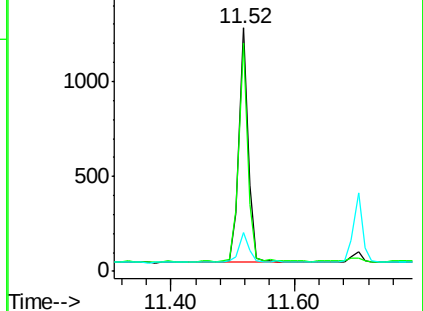
167 13.7 10.7 16.1



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.93 min Scan# 2302

Delta R.T. -0.01 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

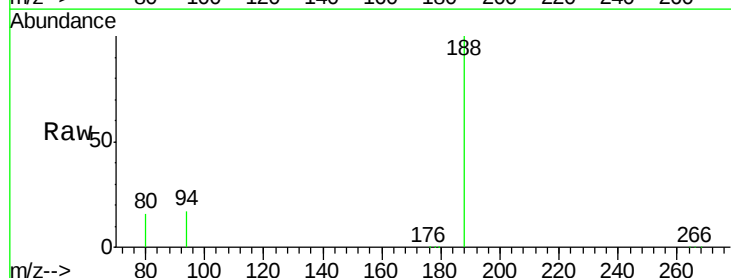
Tgt Ion:188 Resp: 127497

Ion Ratio Lower Upper

188 100

94 17.3 8.5 12.7#

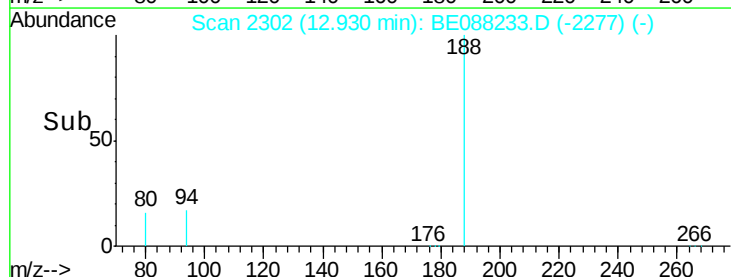
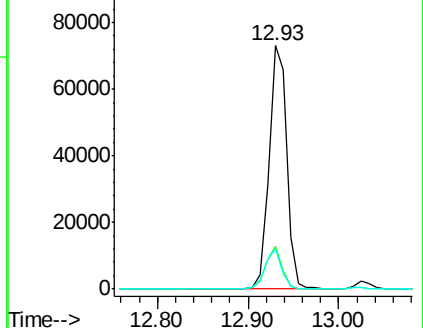
80 16.4 7.4 11.0#

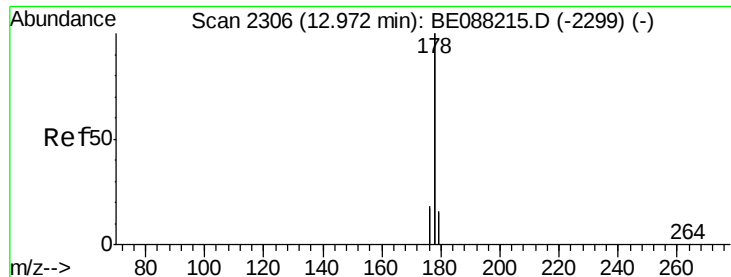


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 0.07 ng

RT: 13.06 min Scan# 2317

Delta R.T. 0.09 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

Instrument :

BNA_E

ClientSampleId :

YS19-SB43-1014

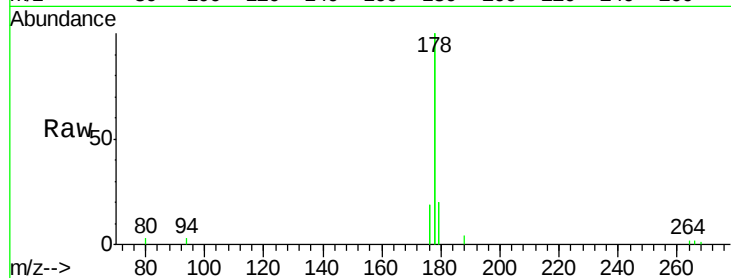
Tgt Ion:178 Resp: 8803

Ion Ratio Lower Upper

178 100

176 20.9 14.0 21.0

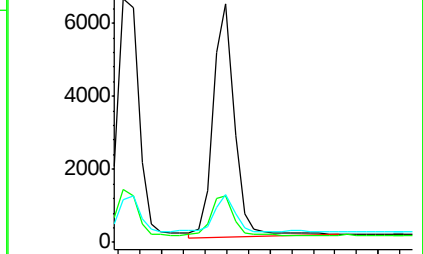
179 17.2 11.8 17.6



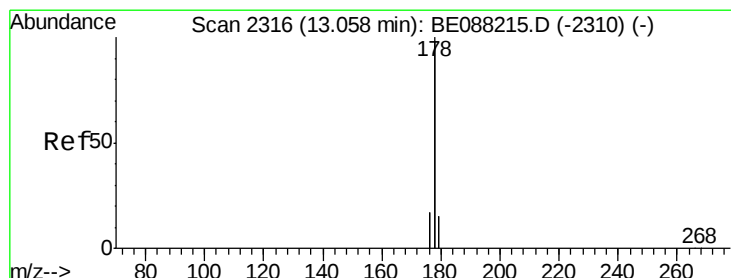
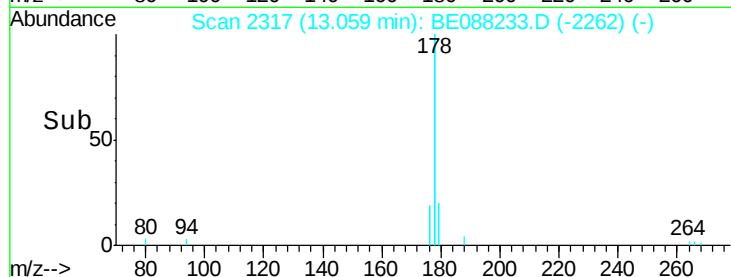
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#14

Anthracene

Concen: 0.10 ng

RT: 13.06 min Scan# 2317

Delta R.T. 0.00 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

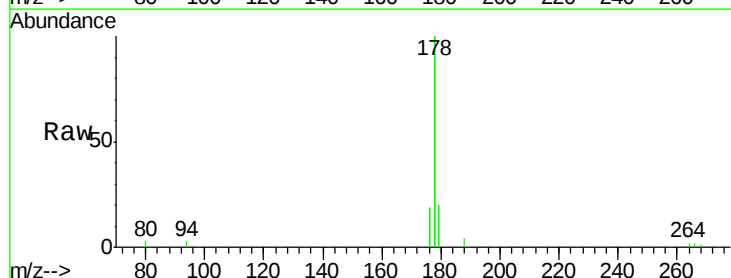
Tgt Ion:178 Resp: 8803

Ion Ratio Lower Upper

178 100

176 20.9 14.7 22.1

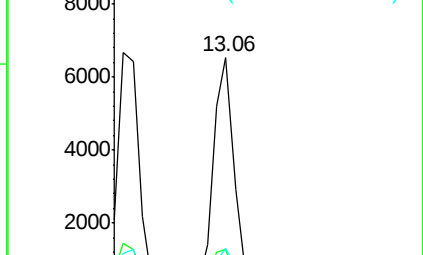
179 17.2 12.3 18.5



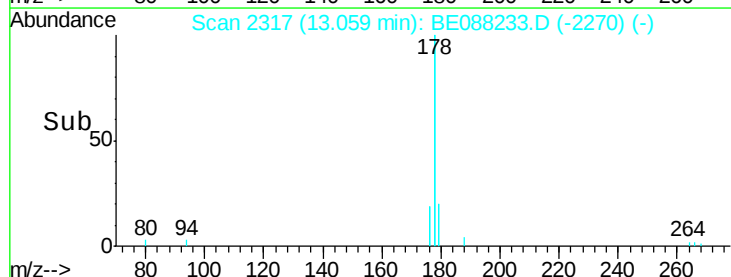
Abundance Ion 178.00 (177.70 to 178.70): E

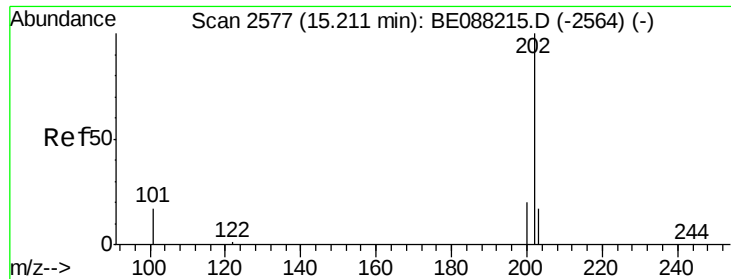
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->

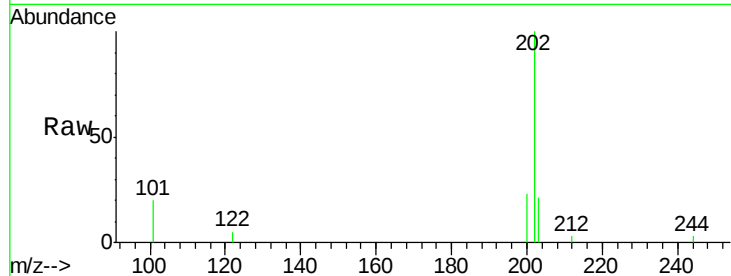




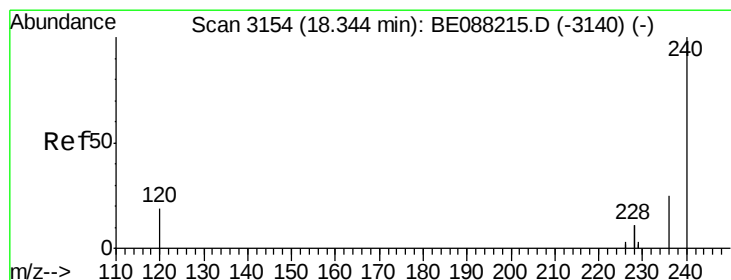
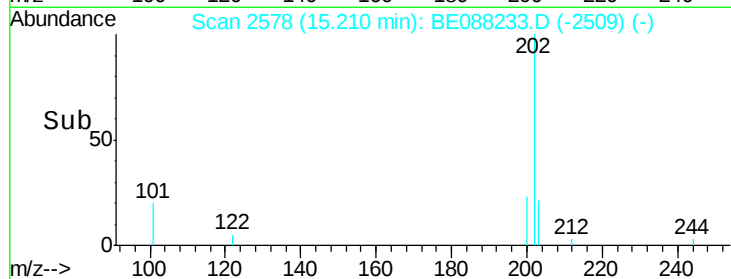
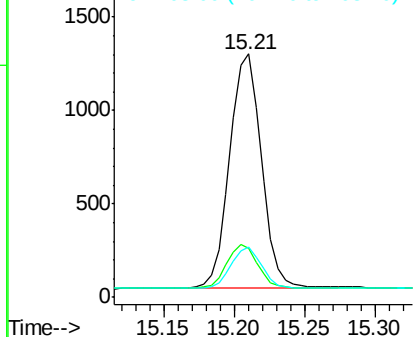
#15
 Fluoranthene
 Concen: 0.10 ng
 RT: 15.21 min Scan# 2578
 Delta R.T. -0.00 min
 Lab File: BE088233.D
 Acq: 25 Oct 2014 5:35

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB43-1014

Tgt Ion: 202 Resp: 1953
 Ion Ratio Lower Upper
 202 100
 101 18.1 14.4 21.6
 203 17.2 13.4 20.2

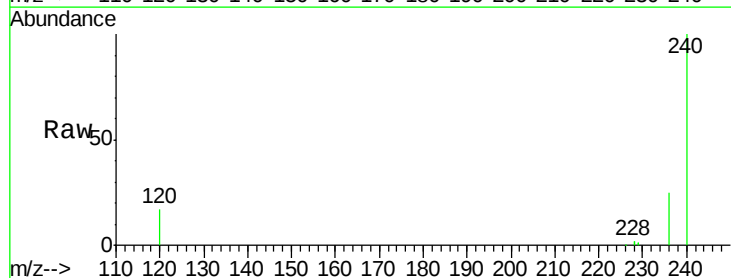


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

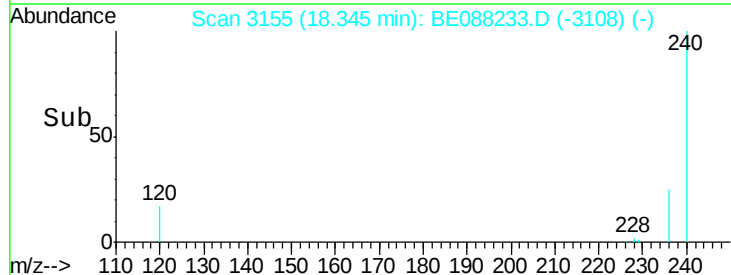
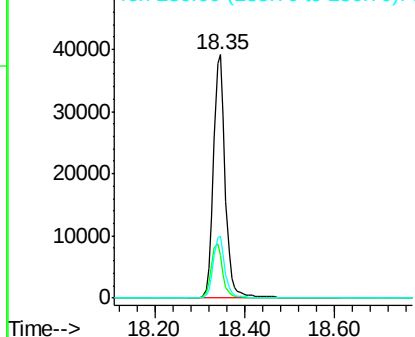


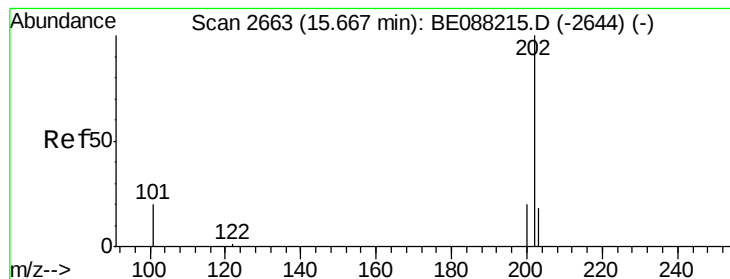
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.35 min Scan# 3155
 Delta R.T. 0.00 min
 Lab File: BE088233.D
 Acq: 25 Oct 2014 5:35

Tgt Ion: 240 Resp: 70885
 Ion Ratio Lower Upper
 240 100
 120 17.5 15.1 22.7
 236 25.1 20.1 30.1



Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E





#17

Pyrene

Concen: 0.11 ng

RT: 15.66 min Scan# 2663

Delta R.T. -0.01 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

Instrument :

BNA_E

ClientSampleId :

YS19-SB43-1014

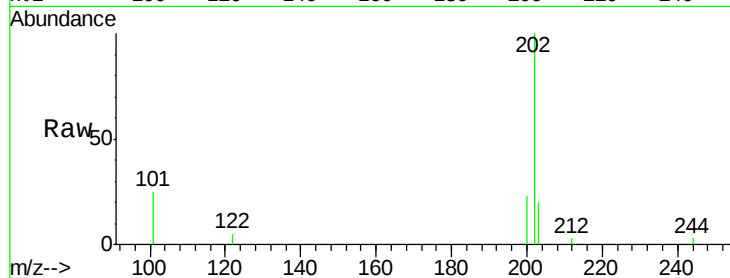
Tgt Ion: 202 Resp: 2094

Ion Ratio Lower Upper

202 100

200 20.2 16.2 24.2

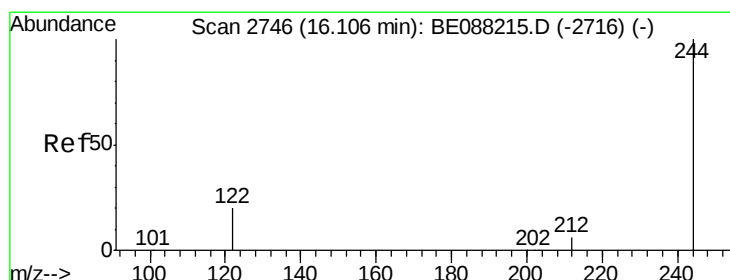
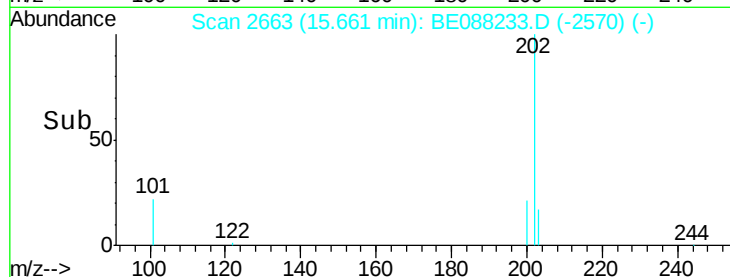
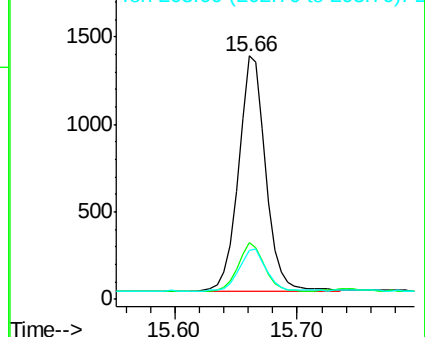
203 17.7 13.8 20.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#18

Terphenyl-d14

Concen: 41.44 ng

RT: 16.13 min Scan# 2752

Delta R.T. 0.03 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

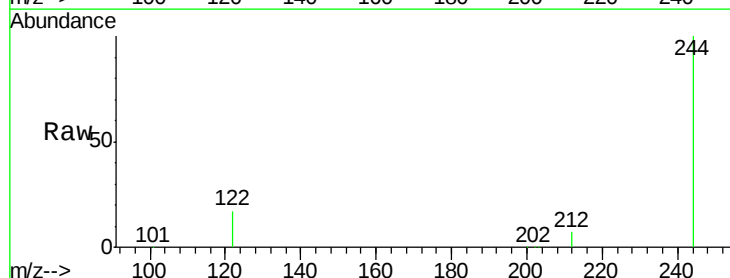
Tgt Ion: 244 Resp: 481047

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.2

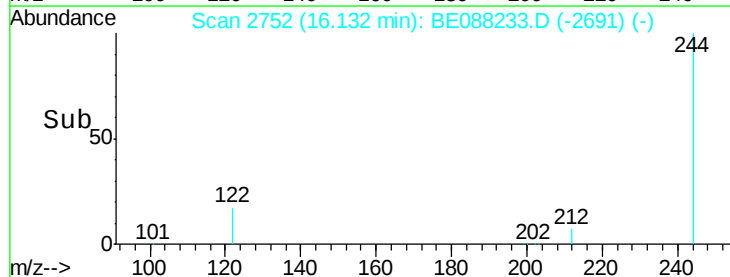
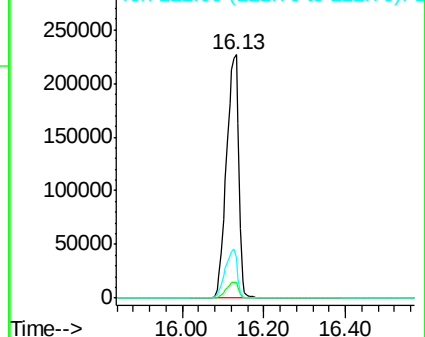
122 16.7 16.7 25.1#

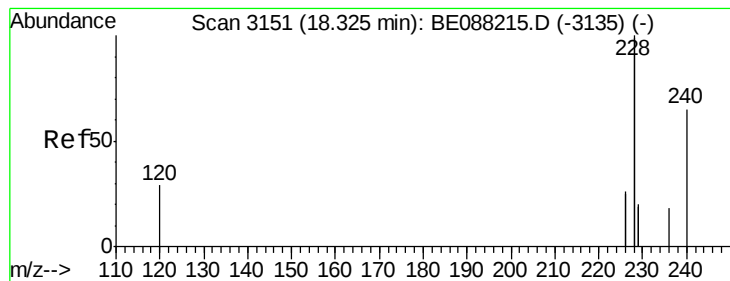


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 0.13 ng

RT: 18.33 min Scan# 3152

Delta R.T. 0.00 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

Instrument :

BNA_E

ClientSampleId :

YS19-SB43-1014

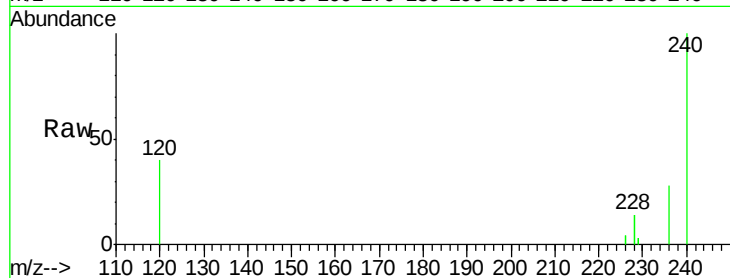
Tgt Ion:228 Resp: 7376

Ion Ratio Lower Upper

228 100

226 27.1 20.5 30.7

229 24.4 16.1 24.1#

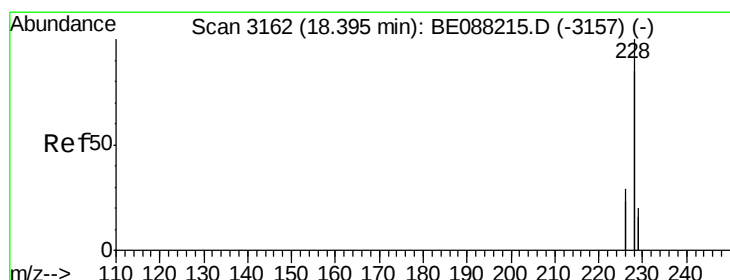
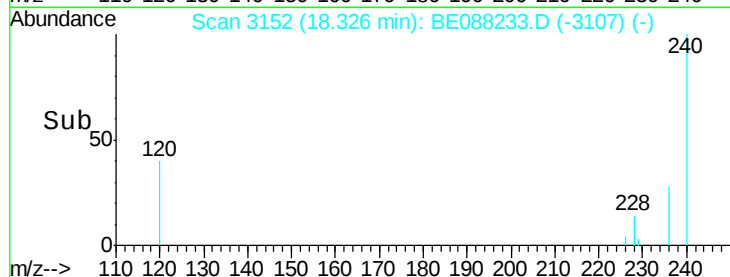
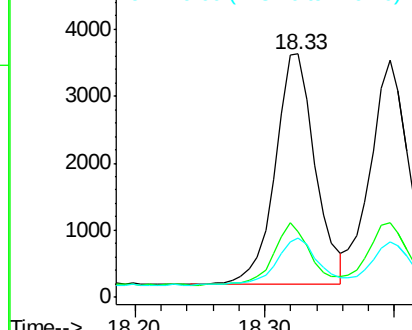


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#20

Chrysene

Concen: 0.11 ng

RT: 18.40 min Scan# 3163

Delta R.T. 0.00 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

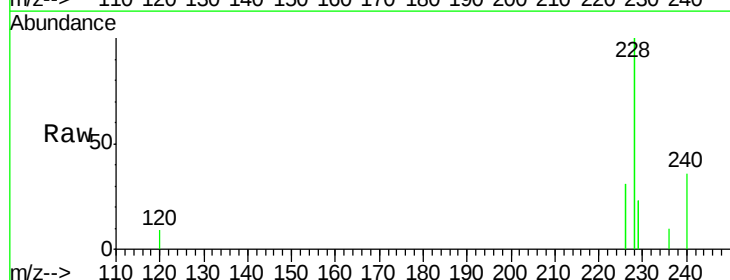
Tgt Ion:228 Resp: 7287

Ion Ratio Lower Upper

228 100

226 31.4 23.3 34.9

229 23.3 15.6 23.4

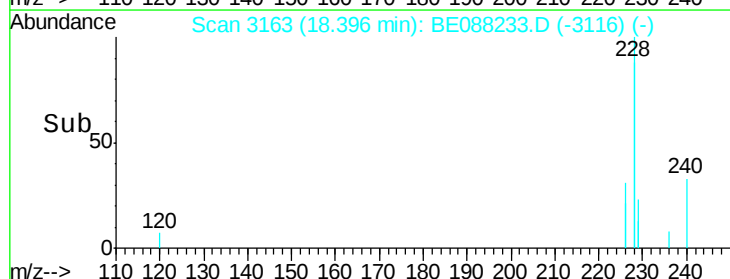
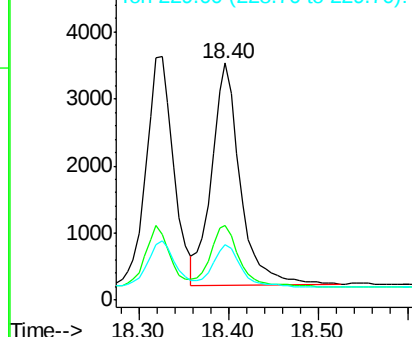


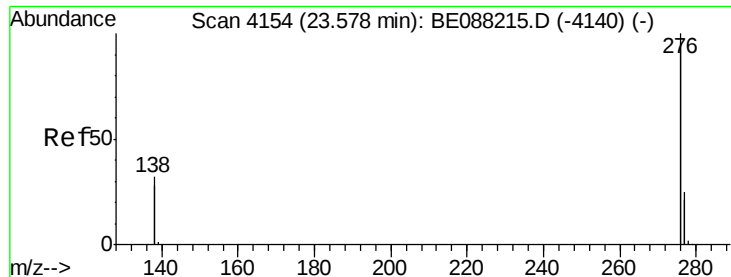
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.29 ng

RT: 23.57 min Scan# 4154

Delta R.T. -0.01 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

Instrument :

BNA_E

ClientSampleId :

YS19-SB43-1014

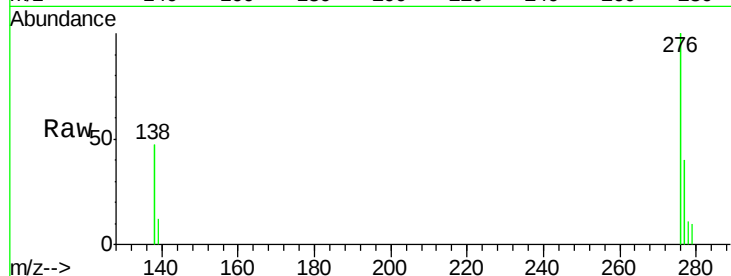
Tgt Ion:276 Resp: 3350

Ion Ratio Lower Upper

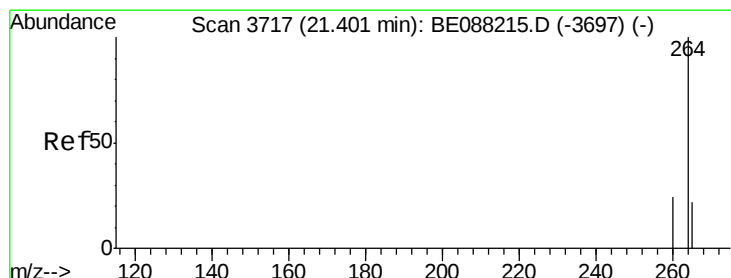
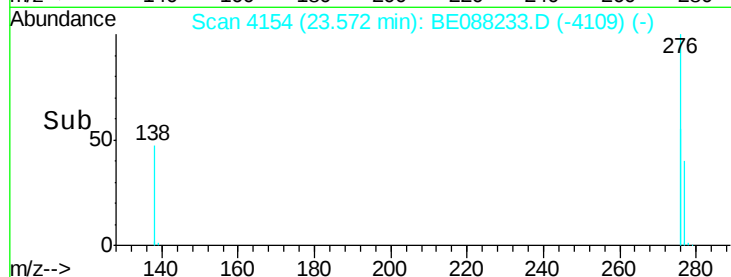
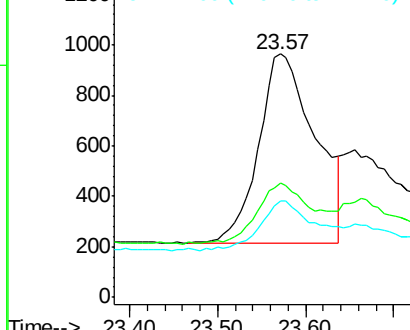
276 100

138 31.1 13.9 20.9#

277 26.5 10.7 16.1#



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



#22

Perylene-d12

Concen: 5.00 ng

RT: 21.40 min Scan# 3717

Delta R.T. -0.00 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

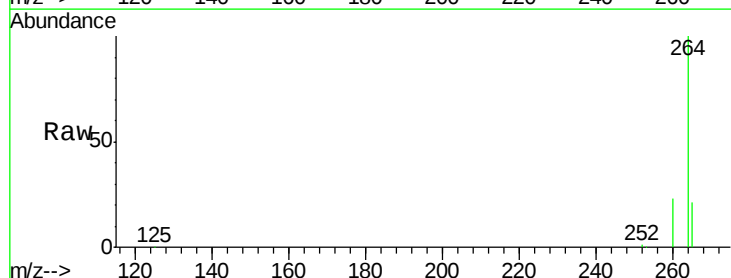
Tgt Ion:264 Resp: 54930

Ion Ratio Lower Upper

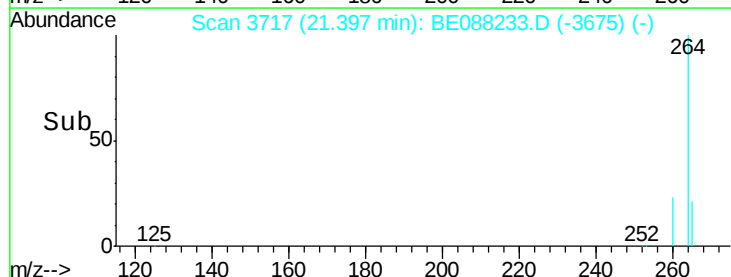
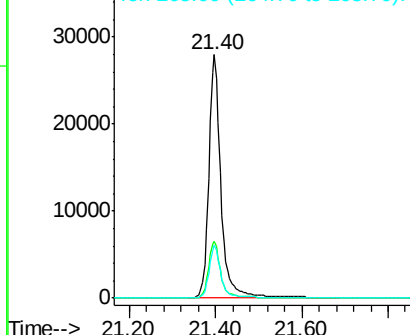
264 100

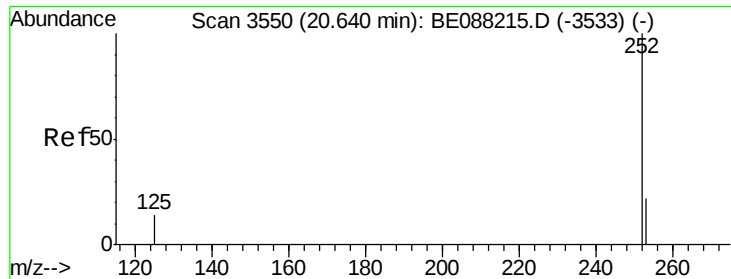
260 23.3 19.0 28.4

265 21.5 17.4 26.2



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.28 ng

RT: 20.64 min Scan# 3551

Delta R.T. 0.00 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

Instrument :

BNA_E

ClientSampleId :

YS19-SB43-1014

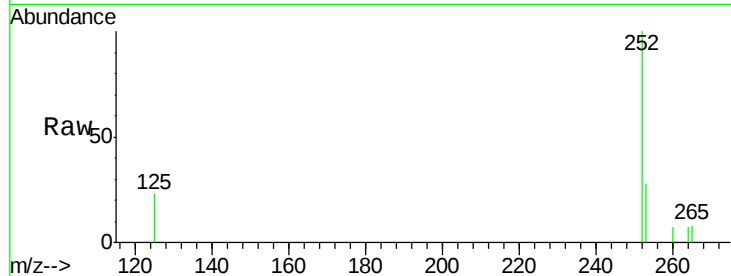
Tgt Ion: 252 Resp: 1375

Ion Ratio Lower Upper

252 100

253 27.6 17.9 26.9#

125 22.7 12.2 18.2#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

800

600

400

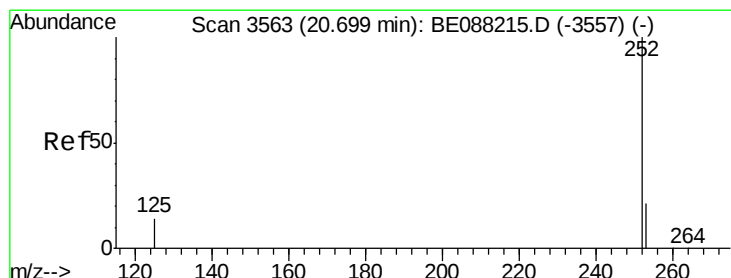
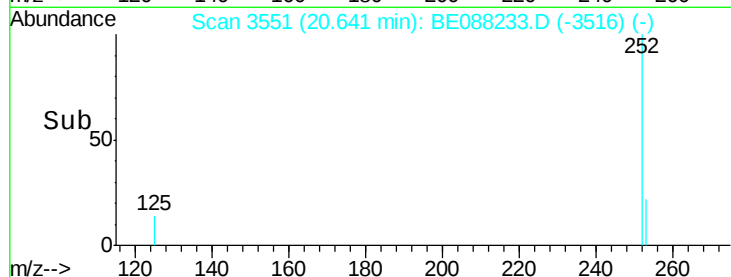
200

0

20.55 20.60 20.65 20.70

20.64

Time-->



#24

Benzo(k)fluoranthene

Concen: 0.13 ng

RT: 20.70 min Scan# 3563

Delta R.T. -0.00 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

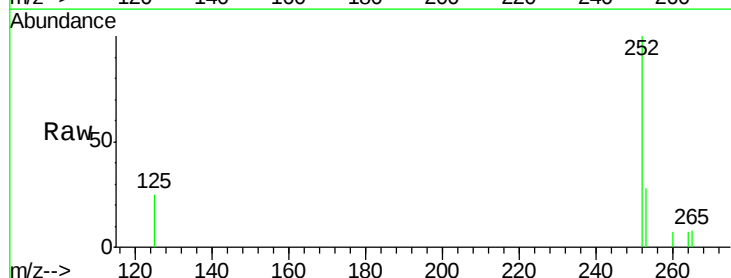
Tgt Ion: 252 Resp: 1775

Ion Ratio Lower Upper

252 100

253 27.7 17.6 26.4#

125 24.6 12.1 18.1#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

800

600

400

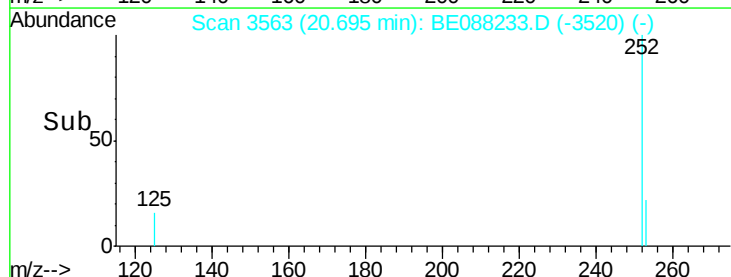
200

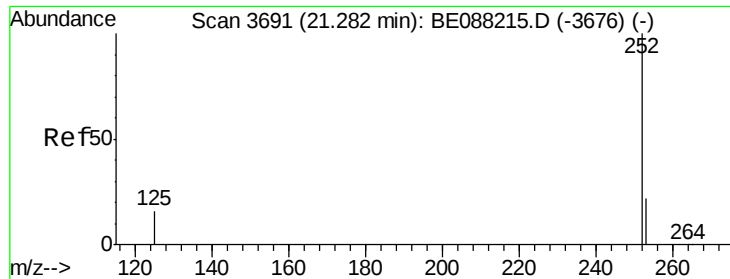
0

20.60 20.70 20.80 20.90

20.70

Time-->





#25

Benzo(a)pyrene

Concen: 0.28 ng

RT: 21.28 min Scan# 3691

Delta R.T. -0.00 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

Instrument :

BNA_E

ClientSampleId :

YS19-SB43-1014

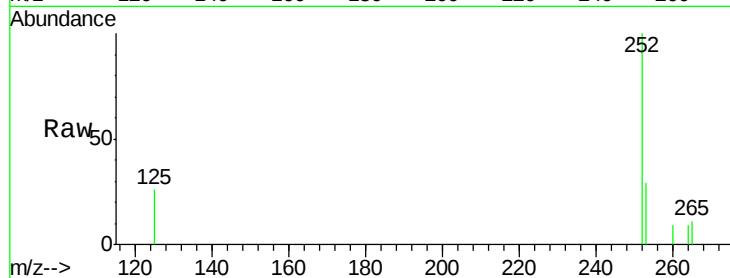
Tgt Ion: 252 Resp: 1277

Ion Ratio Lower Upper

252 100

253 29.3 17.8 26.8#

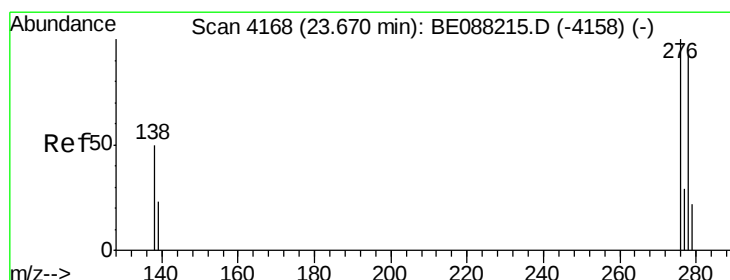
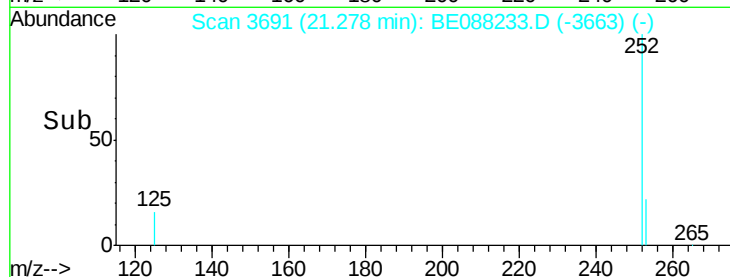
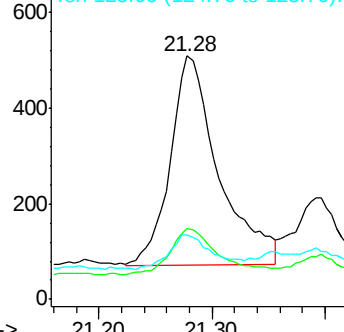
125 26.3 13.5 20.3#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#26

Dibenzo(a,h)anthracene

Concen: 0.30 ng

RT: 23.66 min Scan# 4168

Delta R.T. -0.01 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

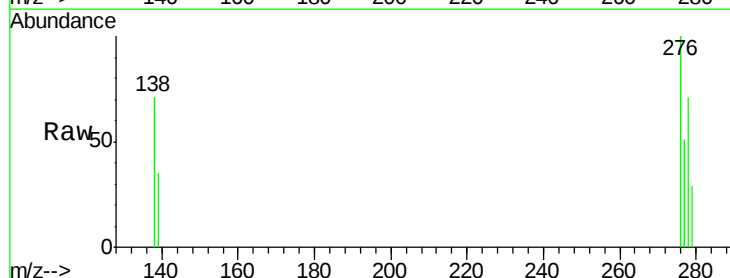
Tgt Ion: 278 Resp: 1025

Ion Ratio Lower Upper

278 100

139 48.5 22.1 33.1#

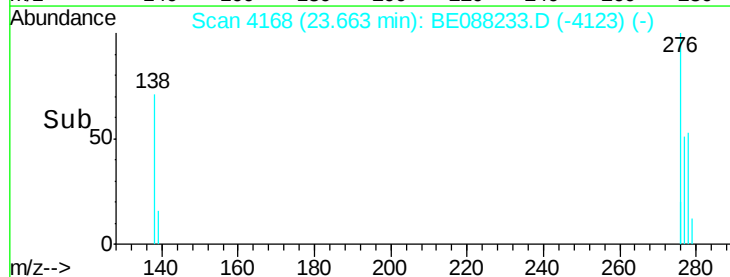
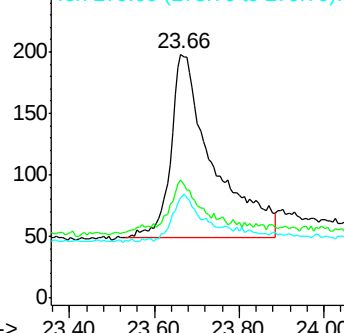
279 40.9 20.2 30.2#

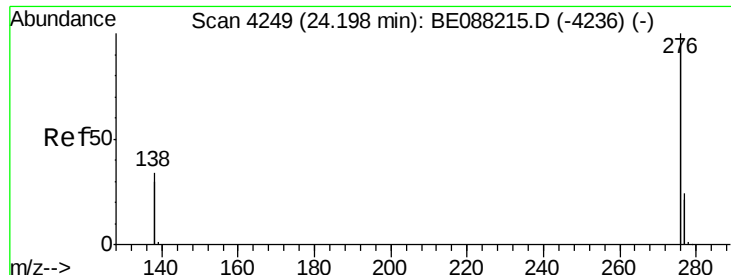


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#27

Benzo(g,h,i)perylene

Concen: 0.12 ng

RT: 24.20 min Scan# 4250

Delta R.T. -0.00 min

Lab File: BE088233.D

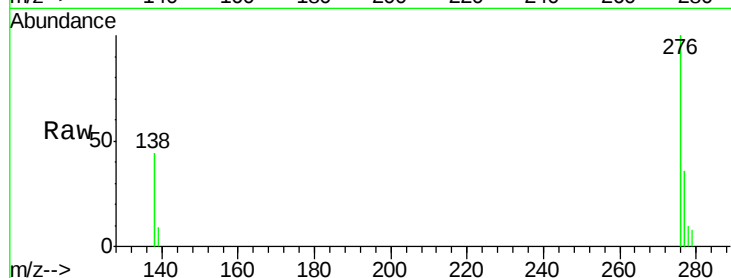
Acq: 25 Oct 2014 5:35

Instrument :

BNA_E

ClientSampleId :

YS19-SB43-1014



Tgt Ion: 276 Resp: 5487

Ion Ratio Lower Upper

276 100

277 35.6 19.4 29.2#

138 43.7 27.3 40.9#

Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

